Test Type: 90-DAY Route: DOSED WATER Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

F1_MX

NTP Study Number: C20114B

Lock Date: 05/15/2003

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Include ALL **Treatment Groups:**

Study Gender: Male

TDMSE Version: 2.6.0.0_007

PWG Approval Date: NONE Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

Test Type: 90-DAY Route: DOSED WATER Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

DAY ON TEST AM3 (C57BL/6) MICE MALE	ST	
0 MG/L ANIMAL ID	DD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1	* TOTALS
ALIMENTARY SYSTEM		
Esophagus	+ + + + +	5
Gallbladder	+ + + + +	5
Intestine Large, Cecum	+ + + + +	5
Intestine Large, Colon	+ + + + +	5
Intestine Large, Rectum	+ + + + +	5
Intestine Small, Duodenum	+ + + + +	5
Intestine Small, Ileum	+ + + + +	5
Intestine Small, Jejunum	+ + + + +	5
Liver Hematopoietic Cell Proliferation Inflammation	+ + + + + + 1 1	5 1 1.0 5 1.0
Tension Lipidosis Pancreas Necrosis, Focal	+ + + + + + 2	5 1 2.0
Salivary Glands	+ + + + +	5
Stomach, Forestomach	+ + + + +	5

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

^{1-4 ..} Lesion qualified as:

¹⁾ Minimal 3) Moderate

²⁾ Mild

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

Lab: BAT

1-4 .. Lesion qualified as:

2) Mild

1) Minimal 3) Moderate

4) Marked

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2			
MG/L ANIMAL ID	0 0 1 2 1	0 0 1 2 2	0 0 1 2 3	0 0 1 2 4	0 0 1 2 5	* TOTA	* TOTALS	
Stomach, Glandular	+	+	+	+	+	5		
CARDIOVASCULAR SYSTEM								
Heart	+	+	+	+	+	5		
ENDOCRINE SYSTEM								
Adrenal Cortex	+	+	+	+	+	5		
Adrenal Medulla	+	+	+	+	+	5		
Parathyroid Gland	+	+	М	+	+	4		
Pituitary Gland	+	+	+	+	+	5		
Thyroid Gland	+	+	+	+	+	5		
GENERAL BODY SYSTEM								
NONE								
GENITAL SYSTEM								
Epididymis	+	+	+	+	+	5		
Preputial Gland	+	+	+	+	+	5		
Prostate	+	+	+	+	+	5		
Seminal Vesicle	+	+	+	+	+	5		

BLANK .. Not examined microscopically

A .. Autolysis precludes evaluation

M .. Missing tissue

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	
D MG/L ANIMAL ID	0 0 1 2 1	0 0 1 2 2	0 0 1 2 3	0 0 1 2 4	0 0 1 2 5	* TOTALS
Testes	+	+	+	+	+	5
HEMATOPOIETIC SYSTEM			-			
Bone Marrow	+	+	+	+	+	5
Lymph Node	М	М	М	М	М	0
Lymph Node, Mandibular	+	+	+	+	+	5
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
Mammary Gland	М	М	М	М	М	0
MUSCULOSKELETAL SYSTEM						
Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5
NERVOUS SYSTEM						
Brain	+	+	+	+	+	5
Spinal Cord	М	М	М	М	М	0

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

^{1-4 ..} Lesion qualified as:

¹⁾ Minimal 3) Moderate

²⁾ Mild

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2		
0 MG/L ANIMAL ID	0 0 1 2 1	0 0 1 2 2	0 0 1 2 3	0 0 1 2 4	0 0 1 2 5	* T O	TALS
RESPIRATORY SYSTEM				-			
Lung	+	+	+	+	+	5	
Nose	+	+	+	+	+	5	
Trachea	+	+	+	+	+	5	
SPECIAL SENSES SYSTEM							
Eye	+	+	+	+	+	5	
Harderian Gland	+	+	+	+	+	5	
URINARY SYSTEM							
Kidney Renal Tubule, Casts Protein Renal Tubule, Vacuolization Cytoplasmic	+	+	+	+	+	5	1 1.0 4 1.0
Urinary Bladder	+	+	+	+	+	5	

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

²⁾ Mild

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

Lab: BAT

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2		
62.5 MG/L ANIMAL ID	0 0 2 2 1	0 0 2 2 2	0 0 2 2 3	0 0 2 2 4	0 0 2 2 5	* TC	OTALS
ALIMENTARY SYSTEM		•	•	•	•		
Intestine Small, Duodenum	+	+	+	+	+	5	
Infiltration Cellular, Histiocyte Epithelium, Hyperplasia	1 1	1	1 1	1	1		2 1.0 5 1.0
Liver	+	+	+	+	+	5	
Depletion Glycogen Hematopoietic Cell Proliferation	3 1	3	1	1			4 2.0 1 1.0
Inflammation	1	1	1	1	1		5 1.0
Pancreas	+	+	+	+	+	5	
Depletion Secretory	1		1		1		3 1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

- * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
- + .. Tissue examined microscopically
- X .. Lesion present
- I .. Insufficient tissue

- M .. Missing tissue
- IVI .. IVIISSII IG LISSUE
- A .. Autolysis precludes evaluation
- BLANK .. Not examined microscopically

- 1-4 .. Lesion qualified as:
 - 1) Minimal 3) Moderate
 - 2) Mild
- 4) Marked

Test Type: 90-DAY Route: DOSED WATER Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

Lab: BAT

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	
62.5 MG/L ANIMAL ID	0 0 2 2 1	0 0 2 2 2	0 0 2 2 3	0 0 2 2 4	0 0 2 2 5	* TOTALS
NONE						
HEMATOPOIETIC SYSTEM						
Lymph Node, Mesenteric	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
NONE						
MUSCULOSKELETAL SYSTEM						
NONE						
NERVOUS SYSTEM						
NONE						
RESPIRATORY SYSTEM						
NONE						
SPECIAL SENSES SYSTEM						
NONE						
URINARY SYSTEM						
Kidney Hydronephrosis Renal Tubule, Regeneration	+ 4 1	+	+	+	+	5 1 4.0 1 1.0

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Renal Tubule, Vacuolization Cytoplasmic

Test Type: 90-DAY Route: DOSED WATER

Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

5 1.2

Lab: BAT

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	
62.5 MG/L ANIMAL ID	0 0 2 2 1	0 0 2 2 2	0 0 2 2 2 3	0 0 2 2 4	0 0 2 2 5	* TOTALS

1 1 1 1 2

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

4) Marked

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

Lab: BAT

	0	0	0	0	0	•	
DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9	0 0 9	0 0 9	0 9	0 9		
AIVIS (CS/BL/O) WICE WALE	9	2	2	2	2	_	
125 MG/L ANIMAL ID	0 0 3 2 1	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4	0 0 3 2 5	* TO	TALS
ALIMENTARY SYSTEM							
Intestine Small, Duodenum	+	+	+	+	+	5	
Infiltration Cellular, Histiocyte	1	1	1	3	1		5 1.4
Epithelium, Hyperplasia	1	1	1	2	1		5 1.2
Liver	+	+	+	+	+	5	
Depletion Glycogen	2	2	1	2	1		5 1.6
Hematopoietic Cell Proliferation				1			1 1.0
Infiltration Cellular, Mononuclear Cell					2		1 2.0
Inflammation	2	1	1	1	1		5 1.2
Pancreas	+	+	+	+	+	5	
Depletion Secretory	1		1	1	1		4 1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

4) Marked

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

X .. Lesion present

I .. Insufficient tissue

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

1) Minimal 3) Moderate

4) Marked

2) Mild

Lab: BAT

	ON TEST	0	0	0 (0 0			
AM3 (C57BL/6) MICE MALE		9	9 2	9 9	9 9 2			
125 MG/L	NIMAL ID	0 0 3 2 1	0 0 3 2 2	0 3 3 2 2	0 0 0 0 3 3 2 2 4 5			* TOTALS
GENITAL SYSTEM				,				
Seminal Vesicle Dilatation					+			1 1 2.0
HEMATOPOIETIC SYSTEM								
Lymph Node, Mesenteric		+	+	+ -	+ +			5
INTEGUMENTARY SYSTEM								
NONE								
MUSCULOSKELETAL SYSTE	EM							
NONE								
NERVOUS SYSTEM								
NONE								
RESPIRATORY SYSTEM								
NONE								
SPECIAL SENSES SYSTEM								
NONE								
URINARY SYSTEM								
Kidney					+ +			5
* Total animals with tissue examined mici + Tissue examined microscopically	roscopically; T	otal a	nima	ls with I		nd mean severity grade . Missing tissue	1-4 Lesion qualified as:	
V Locian present						Autoling accept	1 1 2001011 quantieu do:	

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

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Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 9	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	
125 MG/L ANIMAL ID	0 3 2	0 0 3 2 2	0 0 3 2 3	0 0 3 2 4	0 0 3 2 5	* TOTALS
Cyst Renal Tubule, Vacuolization Cytoplasmic		1		3	1	1 3.0 2 1.0

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

DAY ON TEST AM3 (C57BL/6) MICE MALE	TT	
250 MG/L ANIMAL ID	D 0 0 0 0 0 0 0 0 0	* TOTALS
ALIMENTARY SYSTEM		
Esophagus	+ + + + +	5
Gallbladder	+ + + + +	5
Intestine Large, Cecum	+ + + + +	5
Intestine Large, Colon	+ + + + +	5
Intestine Large, Rectum	+ + + + +	5
Intestine Small, Duodenum Infiltration Cellular, Histiocyte Epithelium, Hyperplasia	+ + + + + + + 2	5 4 1.8 5 1.8
Intestine Small, Ileum	+ + + + +	5
Intestine Small, Jejunum	+ + + + +	5
Liver Depletion Glycogen Hematopoietic Cell Proliferation Inflammation	+ + + + + 4 3 4 4 4 1 1 1 1 1 1	5 5 3.8 1 1.0 5 1.0
Pancreas Depletion Secretory	+ + + + + 1 3 2 1 1	5 5 1.6
Salivary Glands	+ + + + +	5

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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^{1-4 ..} Lesion qualified as:

¹⁾ Minimal 3) Moderate

²⁾ Mild

Test Type: 90-DAY Route: DOSED WATER Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

DAY ON TEST AM3 (C57BL/6) MICE MALE	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
250 MG/L ANIMAL ID	0 0 0 0 0 0 0 0 0 0 4 4 4 4 4 2 2 2 2 2 1 2 3 4 5	* TOTALS
Stomach, Forestomach	+ + + + +	5
Stomach, Glandular	+ + + + +	5
CARDIOVASCULAR SYSTEM		
Heart	+ + + + +	5
ENDOCRINE SYSTEM		
Adrenal Cortex	+ + + + +	5
Adrenal Medulla	+ + + + +	5
Parathyroid Gland	M + M M +	2
Pituitary Gland	+ + + + +	5
Thyroid Gland	+ + + + +	5
GENERAL BODY SYSTEM		
NONE		
GENITAL SYSTEM		
Epididymis Inflammation, Chronic	+ + + + + 2	5 1 2.0
Preputial Gland	+ + + + +	5

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

^{1-4 ..} Lesion qualified as:

¹⁾ Minimal 3) Moderate

Test Type: 90-DAY Route: DOSED WATER Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

DAY ON TEST AM3 (C57BL/6) MICE MALE	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
250 MG/L ANIMAL ID	0 0 0 0 0 0 0 0 0 0 4 4 4 4 4 2 2 2 2 2 1 2 3 4 5	* TOTALS
Prostate	+ + + + +	5
Seminal Vesicle	+ + + + +	5
Testes Germinal Epithelium, Degeneration	+ + + + + + 3	5 1 3.0
HEMATOPOIETIC SYSTEM		
Bone Marrow	+ + + + +	5
Lymph Node	M M M M	0
Lymph Node, Mandibular	+ + + + +	5
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+ + + + + 1 2 2 1	5 4 1.5
Spleen	+ + + + +	5
Thymus	+ + + + +	5
NTEGUMENTARY SYSTEM		
Mammary Gland	M M M M	0
MUSCULOSKELETAL SYSTEM		
Bone	+ + + + +	5
Skeletal Muscle	+ + + + +	5

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

^{1-4 ..} Lesion qualified as:

¹⁾ Minimal 3) Moderate 4) Marked

²⁾ Mild

Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: MICE/AM3

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Date Report Requested: 03/29/2012 Time Report Requested: 07:34:21 First Dose M/F: 08/23/02 / NA

Lab: BAT

DAY ON TEST AM3 (C57BL/6) MICE MALE	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2	
250 MG/L ANIMAL ID	0 0 4 2 1	0 0 4 2 2	0 0 4 2 3	0 0 4 2 4	0 0 4 2 5	* TOTALS
NERVOUS SYSTEM				-	-	
Brain	+	+	+	+	+	5
Spinal Cord	М	М	М	М	М	0
RESPIRATORY SYSTEM						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
URINARY SYSTEM						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

*** END OF REPORT ***

^{* ..} Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

^{+ ..} Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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¹⁾ Minimal 3) Moderate

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